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Project | Date November 1, 1950 | Author James C. Evenden

SUBJECT—

# TITLE

FOREST INSECT SURVEYS

COEUR D'ALENE NATIONAL FOREST

1950

By

Forest Insect Laboratory
Coeur d'Alene, Idaho

INDEX NO.—

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FOREST INSECT
LABORATORY

# Forest Insect Survey

# Coeur d'Alene National Forest

# 1950

By

Forest Insect Laboratory
Coeur d'Alene, Idaho

Surveys conducted in 1949 showed a number of serious infestations of the mountain pine beetle in the white pine stands of the Coeur d'Alene National Forest. The potentials of these situations was increased materially by the large number of white pine trees that had been windthrown during the previous winter. White pine windfalls are an attractive host for attacks of the mountain pine beetle. Our records show that although the number of beetles attacking is about half of the number attacking a standing tree, the emergence of new beetles is the same.

The most serious of the situations recorded was the so-called Yellow Dog-Downey Area. There were other smaller units where equally as alarming situations existed. Although control measures were recommended and approved for a number of these infested areas, no final action was possible.

During the 1950 season all of these areas were resurveyed to obtain current information as to the status of the mountain pine beetle infestation. The survey of some areas was completed during August, while on others the work was conducted until October. These surveys were made by this laboratory under the crew leadership of Messrs C. J. Johnson and G. C. Trostle.

A late cold 1950 spring season, with the known delayed emergence from windfalls, gave assurrance of late seasonal attacks. Being apprehensive of attacks that would occur after the survey data had been taken, plans were made to provide a proper correction factor. A semi-permanent sample strip was established in the Yellow Dog area, that was rerun at different periods during the season. The data obtained by Mr. A. L. Gibson, who was assigned to this study, provided a correction factor for the late attack of the Yellow Dog-Downey Units.

This group of five units include the Yellow-Dog and Downey Creek drainages and the opposite mountain slopes on the east side of the Coeur d'Alene River. On these units there is a merchantable timber stand of some 410,000 M.B.F., of which 200,000 M.B.F. is western white pine. This timber stand is of a 120-140 year age class.

Since 1930 the loss of white pine from mountain pine beetle attacks in these units, has amounted to not less than 75,000 M.B.F. During this period a program of maintenance control has been conducted, which for the most part has been directed against so-called "hot spots" or areas of concentrated infestation. Although this left much to be desired, it unquestionable contributed materially to the preservation of the white pine volume, still present in the area.

| Yellow Dog River | 1950 | 1949 |
|---|---|---|
| Total acres of unit | 2140 | 2140 |
| Acres of sample strip | 93 | 107 |
| Percent of area covered by sample strip | 4.35 | 5.0 |
| Infested trees on sample strip | 48 | 56 |
| Number of infested trees per acre | .516 | .53 |
| Total infested trees for unit | 1104 | 1140 |
| 40% Correction for subsequent attacks | 441 | |
| Corrected total | 1545 | |

| Yellow Dog Creek | 1950 | 1949 |
|---|---|---|
| Total acres of unit | 4120 | 4120 |
| Acres of sample strip | 191 | 206 |
| Percent of area covered by sample strip | 4.64 | 5.0 |
| Infested trees on sample strip | 115 | 249 |
| Number of infested trees per acre | .602 | 1.21 |
| Total infested trees for unit | 2480 | 4969 |
| 30% Correction for subsequent attacks | 744 | |
| Corrected Total | 3224 | |

| Downey Creek | 1950 | 1949 |
|---|---|---|
| Total acres of unit | 4160 | 4160 |
| Acres of sample strip | 218 | 208 |
| Percent of area covered by sample strip | 5.24 | 5.0 |
| Infested trees on sample strip | 78 | 185 |
| Number of infested trees per acre | .358 | .89 |
| Total infested trees for unit | 1489 | 4160 |
| 30% Correction for subsequent attacks | 446 | |
| Corrected total | 1935 | |

| Sissons | 1950 | 1949 |
|---|---|---|
| Total acres of unit | 4700 | 4700 |
| Acres of sample strip | 222 | 235 |
| Percent of area covered by sample strip | 4.72 | 5.0 |
| Infested trees on sample strip | 41 | 108 |
| Number of infested trees per acre | .185 | .46 |
| Total infested trees for unit | 870 | 2200 |
| 30% Correction for subsequent attacks | 261 | |
| Corrected total | 1131 | |

| North Yellow Dog | 1950 | 1949 |
|---|---|---|
| Total acres of unit | 840 | 840 |
| Acres of sample strip | 43 | 42 |
| Percent of area covered by sample strip | 5.12 | 5.00 |
| Infested trees on sample strip | 14 | 18 |
| Number of infested trees per acre | .326 | .44 |
| Total infested trees for unit | 274 | 371 |
| 30% Correction for subsequent attacks | 82 | |
| Corrected total | 356 | |

Summary Total Area

| | 1950 | | 1949 | |
|---|---|---|---|---|
| | Trees | Windfalls | Trees | Windfalls |
| Infestation | 3815 | 4376 | 7570 | 4840 |
| Total | 8191 | | 12,410 | |
| Reduction in Infestation | 33.9% | | | |

The reduction in the severity of the 1950 infestation can be misleading. Obviously there are less infested trees and windfalls, but perhaps no reduction in beetle population. In 1948 our survey showed an infestation of 2614 trees for the 5 units. In 1949 there were 12,410 infested trees and windfalls, an increase (375%) from 1 to 4.75. Such an increase in the beetle population is entirely possible, but perhaps somewhat questionable.

A more logical explanation would have been the large number (61%) of windfalls present in the 1949 infestation. These windfalls absorbed a large portion of the 1948 beetle population with light attacks. An additional supply of windfalls in 1950 again absorbed a large portion of the current season's attacks, but this year the attacks are quite heavy. So it is entirely possible, that although there has been a reduction in the number of infested trees and windfalls there has been no decrease in the beetle population. This possibility is mentioned as we do not want to over depreciate the potential severity of the current infestation.

| Upper Indian Creek | 1950 | 1949 |
|---|---|---|
| Total acres of unit | 200 | 200 |
| Acres of sample strip | 13 | 21 |
| Percent of area covered by sample strip | 7.00 | 10.5 |
| Infested trees on sample strip | 4 | 5 |
| Number of infested trees per acre | .307 | .24 |
| Total infested trees for unit | 61 | 48 |

This unit lies in the south half of sections 5 and 6, T50N, R3E, at the head of Indian Creek. In 1948 there was a rather severe concentration of white pine infestation in this area. Although the infested trees were treated, which reduced the severity of the situation, the infestation seems to presist.

| LaVerne Creek | 1950 | 1949 |
|---|---|---|
| Total acres of unit | 2560 | 2560 |
| Acres of sample strip | 55 | 43 |
| Percent of area covered by sample strip | 2.15 | 1.7 |
| Infested trees on sample strip | 3 | 1 |
| Number of infested trees per acre | .054 | .023 |
| Total infested trees for unit | 140 | 58 |

This unit comprises the white pine stands of the LaVerne Creek drainage. Douglas Fir dominates the timber type on the ridge tops and south and west facing slopes. White pine stands are mature, with considerable evidence of past losses from bark beetle attacks. In addition to the sample strip run in this unit, several vantage points were visited from which good views of the area were obtained. Red tops (1949 attacks) scattered throughout the area were observed from these points. A few windfalls were recorded but only one was found to be infested.

| Cougar Creek | 1950 | 1949 |
|---|---|---|
| Total acres of unit | 7300 | 7500 |
| Acres of sample strip | 268 | 189 |
| Percent of area covered by sample strip | 3.7 | 2.5 |
| Infested trees on sample strip | 51 | 36 |
| Number of infested trees per acre | .19 | .19 |
| Total infested trees for unit | 1387 | 1425 |

This unit includes the mature white pine stands of the Cougar Creek drainage. The 1950 infestation is concentrated somewhat in the center of the unit, although attacked trees were found in all portions. A few scattered windfalls were recorded but there was no concentration of them. The attacks of the individual trees were considered as normal and seem to reach to maximum height on the bole. As the survey of this area was made on September 28-30, no correction factor has been applied.

## Summary and Recommendations

| Unit | Infested Trees Per Acre. | Total Infested Trees Per Unit. |
|---|---|---|
| Yellow Dog and Downey Units | | |
| # 1. Yellow Dog River * | .722 | 1545 |
| # 2. Yellow Dog Creek * | .782 | 3224 |
| # 3. Downey Creek * | .465 | 1935 |
| # 4. Siesons * | .240 | 1131 |
| # 5. North Yellow Dog * | .423 | 356 |
| 535 Windfalls. | | 8191 |
| | | 61 |
| # 12 and 13 Cougar Creek | .19 | 1387 |
| # 9. LaVerne Creek | .054 | 140 |
| | | 9779 |

* Correction factor applied for late attacks.

The seriousness of the Yellow Dog - Downey insect situation is self evident. It has already been explained that although the 1950 data show a 33 percent reduction in the number of infested units, - trees and windfalls, - there is perhaps little if any change in the status of the beetle population. The need for remedial action in this area is quite obvious, but the question seems to be - what action?

For the past 20 years a program of maintenance control has been directed against the infestation in these units. During this period, even with the protection given by this hot spotting program of control, some 67,053 M.B.F. of white pine, or 134,106 trees, were killed by the

mountain pine beetle. A recent timber survey shows there are 215,000 M.B.F. of white pine remaining in this area. I feel we can say with assurance, that the past program of control, although unsatisfactory in its intensiveness, resulted in the preservation of a large percent of the existing residual white pine volume.

The Yellow Dog - Downey bark beetle infestation has been the subject of much discussion during past years. This discussion always revolves around the necessity for some cutting practice which will remove all trees susceptible to bark beetle attacks, as a means of indirect rather than direct control. Although perhaps to some detail, no question can be raised with this solution, but unfortunately until it is put into practice, other proceedures must be used. During this interval the residual timber stands must be protected by direct control, or chances taken on the occurrence of far greater losses than have occurred in the past. It is recognized that there are many "if" and "and" in connection with this question, which have no place in this report.

To attempt a prediction as to the future of this infestation is rather impossible. However we have no reason to assume that the 1951 loss will not be equal to that of the present. In fact it will be greater as a larger number of standing trees will be infested (I hope there will not be an additional supply of windfalls). It would seem that, unless other proceedures of indirect control are planned for the immediate future, that the direct control of this situation is fully warranted.

Control measures are not recommended for Cougar Creek or LaVerne Creek.

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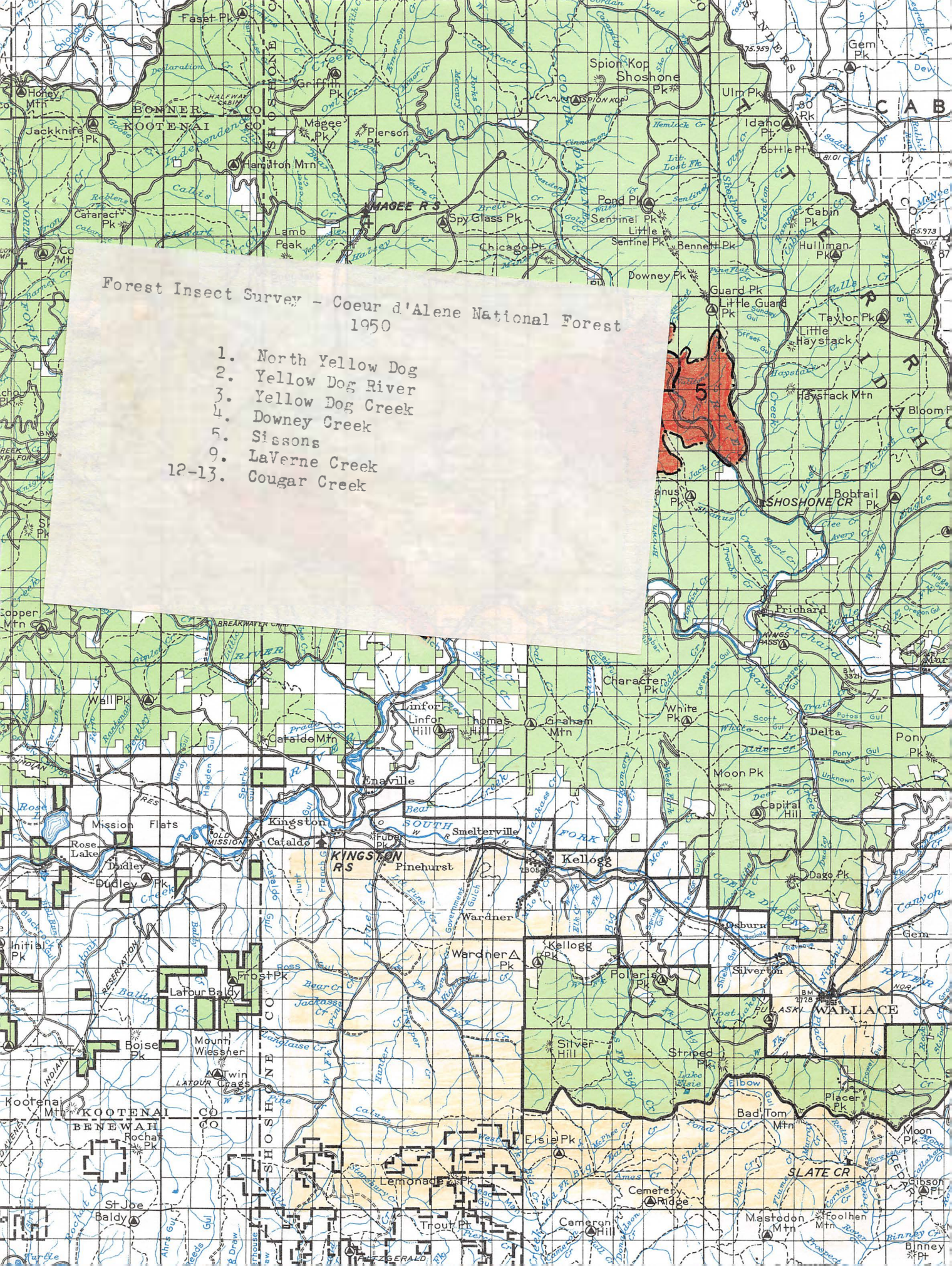
The Yellow Dog - Downey bark beetle infestation has been the subject of much discussion during past years. This discussion always revolves around the necessity for some cutting practice which will remove all trees susceptible to bark beetle attacks, as a means of indirect rather than direct control. Although there may be objections to some details involved, I can see no serious objections to such a solution. However until such practices can be put into effective operation, other proceedures of protection may be in order. If there is to be an extended interval before these stands are placed under such management, the existing timber values must be protected by control, or chances taken on the occurrence of additional losses.

There are many "if" and "and" in connection with this question that have no place in this report. However attention is directed to the beneficial effects of the logging that was conducted in Yellow Dog this season in connection with the road building program. The white pine logs associated with this operation were all heavily infested with the mountain pine beetle in early August. These logs were subsequently removed, and must have contributed materially to the reduction in this season's infestation.

To predict the future of this infestation, or the loss of timber in 1951 is rather impossible. Our data relative to the nature of the 1950 infestation would give no reason to assume that there will be any reduction in the severity of the infestation in 1951. There may be a further reduction in the number of infested units but the actual loss will be greater as more standing trees will be attacked. I am hoping there will not be an additional supply of 1950-1951 blowdowns. The cost of treating the present infestation can be balanced against the expected loss in 1951, and the possibility of control in 1952. It is understood that further road building programs are planned for this area in 1951, which if conducted at the proper season of the year (July and August) will aid in further reducing the bark beetle population. Unless such other proceedures of indirect control are planned for the immediate future, direct control measures would seem to be warranted.


Forest Insect Survey - Coeur d'Alene National Forest
1950
1. North Yellow Dog
2. Yellow Dog River
3. Yellow Dog Creek
4. Downey Creek
5. Sissons
9. LaVerne Creek
12-13. Cougar Creek
5
Faset Pk
Griffin Pk
Honey Mtn
BONNER CO
KOOTENAI CO
Jackknife Pk
Magee Pk
Pierson Pk
Hamilton Mtn
MAGEE R S
Cataract Pk
Lamb Peak
Spy Glass Pk
Chicago Pt
Spion Kop
Shoshone Pk
Ulm Pk
Idaho Pk
Bottle Pt
Gem Pk
Pond Pk
Sentinel Pk
Little Sentinel Pk
Bennett Pk
Cabin Pk
Hullman Pk
Downey Pk
Guard Pk
Little Guard Pk
Taylor Pk
Little Haystack
Haystack Mtn
Bloom P
SHOSHONE CR
Bobtail Pk
Prichard
Character Pk
White Pk
Delta
Pony Pk
Moon Pk
Capital Hill
Wall Pk
Linfor Hill
Thomas Hill
Graham Mtn
Cataldo Mtn
Emaville
Mission Flats
Rose Lake
Dudley Pk
Kingston
Cataldo
Fubar Pk
Smelterville
KINGSTON R S
Pinehurst
Kellogg
Dago Pk
Wardner
Osburn
Gem
Initial Pk
Wardner Pk
Kellogg Pk
Silverton
Frost Pk
Latour Baldy
Follaris Pk
WALLACE
Boise Pk
Mount Wiessner
Twin Crags
Silver Hill
Striped Pk
Elbow
Placer Pk
Kootenai Mtn
KOOTENAI CO
BENEWAH CO
Rochat Pk
Bad Tom Mtn
Moon Pk
Elsie Pk
SLATE CR
Lemonade Pk
Cemetery Ridge
Gibson Pt
St Joe
Baldy
Trout Pt
Cameron Hill
Mastodon Mtn
Foolhen Mtn
Binney Pt
SHOSHONE CO

Forest Insect Survey - Coeur d'Alene National Forest
1950

1. North Yellow Dog
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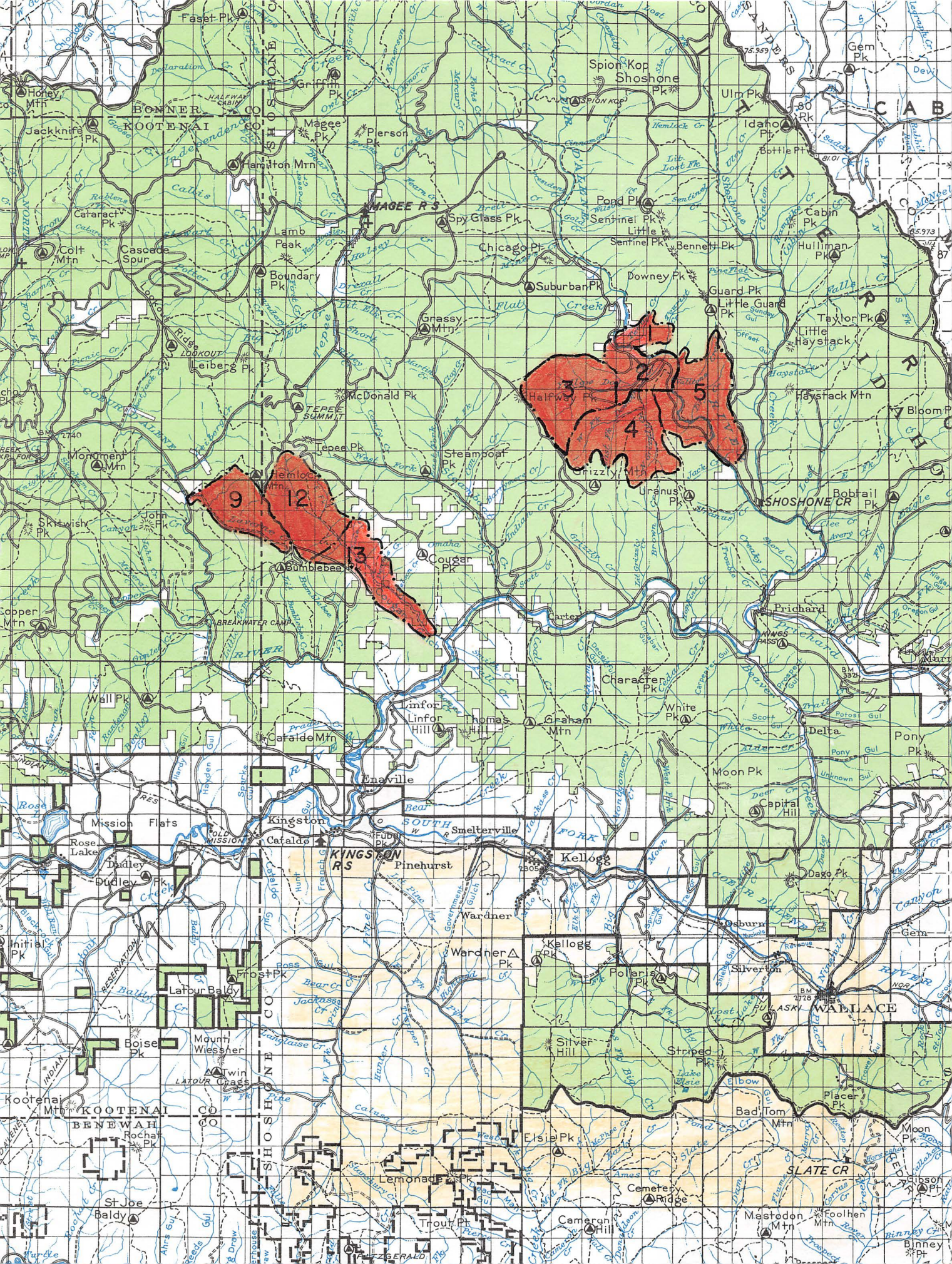
12-13. Cougar Creek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KOOTENAI CO
Jackknife Pk
Magee Pk
Pierson Pk
Hamilton Mtn
MAGEE R S
Spy Glass Pk
Cataract Pk
Lamb Peak
Colt Mtn
Cascade Spur
Boundary Pk
Lookout Ridge
LOOKOUT
Leiberg Pk
Grassy Mtn
McDonald Pk
TEPEE SUMMIT
Tepee Pk
Monument Mtn
Hemlock Mtn
Steamboat Pk
Skitwish Pk
John Pk
Bumblebee
Cougar Pk
BREAKWATER CAMP
Copper Mtn
Wall Pk
Linfor Hill
Thomas Hill
Graham Mtn
Cataldo Mtn
Enaville
Mission Flats
Kingston
Cataldo
OLD MISSION
Rose Lake
Dudley
Dudley Pk
KINGSTON R S
Fubar Pk
Smelterville
Pinehurst
Kellogg
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BENEWAH CO
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Cabin Pk
Hulliman Pk
Chicago Pt
Suburban Pk
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Uranus Pk
Bobtail Pk
SHOSHONE CR
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Character Pk
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Moon Pk
Capital Hill
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Bad Tom Mtn
Moon Pk
SLATE CR
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Gibson Pt
Cameron Hill
Mastodon Mtn
Foolhen Mtn
Binney Pt
Binney Cr
Cougar Gulch
Big Creek
Hunter Creek
Pine Creek
Ross Gulch
Bear Creek
Jackass Cr
Latour Creek
Rocky Fork
Rocky Fork Cr
Rocky Fork Gulch
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